

Name: _____ Date: _____ Period: _____

Weekend Word Problem #2: Integer Operations

Situation: The Redskins and the Cowboys are playing in an epic football game. The Redskins are in possession of the football, and are gaining and losing yards during the possession.

1. Circle the correct word in each parentheses.

a) A gain of yards is represented by a (positive, negative) integer.

b) A loss of yards is represented by a (positive, negative) integer.

2. Here is a play-by-play of part of the second drive of the football game:

The Redskins quarterback (RGIII) hands off the ball to a running back for a gain of five yards. During the second play, RGIII is unable to make a throw and the ball is moved back ten yards. Then, the Redskins are called for holding, which results in a penalty (loss) of ten yards. The next play, RGIII rushes the ball forward for a total of twenty yards. However, he is sacked during the following play and loses twelve yards. Finally, RGIII completes a pass, gaining forty-three yards for the Redskins.

*Draw a sketch of these plays.

3. Write an expression using integers to illustrate the drive described in #2.

4. Using your sketch from #2 or your expression from #3, calculate the total number of yards either gained or lost during the Redskins' drive.

5. Which was more helpful for you in calculating the total number of yards gained/lost: your sketch or your expression? Explain using at least THREE COMPLETE sentences.

6. Why is understanding integers useful for this real world problem? If you do not believe it is useful, say so and DEFEND your answer. Write at least THREE COMPLETE sentences.
